

volume defined between said closed end of said cylinder and said component, at least one rotating shaft mounted outside said cylinder, said component having a projecting portion which pierces said closed end of said cylinder, said projecting portion being mechanically linked to said shaft, said projecting portion in operation functioning to transfer mechanical work between said component and said shaft. --

C1 -- Claim 23. A device for the working of fluids, said device comprising a chamber having a head, a component reciprocally movable within said chamber, said head and component defining a variable working volume therebetween, said component having an internal passage for passage of fluids to or from said working volume, said working volume being separated from and pierced by said passage. --

-- Claim 24. A device for the working of fluids, said device having a cylinder assembly with internal circumferential depressions, a component with external circumferential projections, said projections reciprocating in said depressions and both having working surfaces defining at least one pair of torroidal fluid working chambers in operation of cyclically variable capacity, said assembly consisting of at least one structural member having working surfaces mounted internally on a cylinder having the function of transmitting load imposed by the working surfaces.--

-- Claim 25. A device for the working of fluids, said device having at least one component mounted to reciprocate within a cylinder assembly having at least two closed ends pierced by projecting portions of said component, at least one of said projecting portions functioning to transmit loads imposed on said reciprocating component, said component having a circumferential projection incorporating working surfaces, said

surfaces with said ends in operation defining two fluid working chambers having torroidal configuration of cyclically variable capacity. --

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-- Claim 26. A device for the working of fluids, said device having at least one component mounted to reciprocate within a cylinder assembly consisting of at least one pair of cylinder portions each having one closed end, said component having working surfaces that in operation define a fluid working chamber of cyclically variable capacity located in each cylinder portion, at least one reciprocating component having at least one projecting section which pierces said closed end and which functions to transmit load imposed on said component, there being deployed between said cylinder assembly and said reciprocating component a mechanism which causes said component to rotate while reciprocating. --

-- Claim 27. A device for the working of fluids, said device having at least one component mounted to reciprocate within a cylinder assembly consisting of at least one pair of cylinder portions each having one closed end, said component having working surfaces that in operation define at least one fluid working chamber of cyclically variable capacity, said cylinder assembly being so mounted in an externally disposed housing that said cylinder assembly rotates in said housing while said component reciprocates within said assembly. --

-- Claim 28. A device for the working of fluids, said device having a cylinder assembly with an interior working surfaces of which has at least one circumferential depression, said device also having a shaft reciprocating within said cylinder assembly, said shaft having at least one circumferential projection occupying part of said depression, the working surfaces of said device partly comprising the surfaces of said

depression and said projection, said shaft transmitting loads imposed by said working surfaces. --

C1 -- Claim 29. A device for the working of fluids, said device having at least one cylinder assembly at least one component reciprocating within said assembly, said component and assembly together defining at least two fluid working chambers having surfaces of torroidal configuration and cyclically variable capacity, said surfaces of each chamber in operation being variably separated and so configured as to cause said component to rotate while reciprocating relative to said cylinder assembly. --

-- Claim 30. The device of claim 30, wherein said transfer of mechanical work is by means of at least one device known as a scotch yoke. --

-- Claim 31. The device of claim 38, including a further shaft rotatable contra to said other shaft wherein work is transferred between said component and two contra-rotating shafts. --

-- Claim 32. The device of claim 30, wherein said mechanical linkage is by tensile member. --

-- Claim 33. The device of claim 30, wherein said mechanical linkage is of cyclically variable length. --

-- Claim 34. The device of claim 30, wherein said mechanical linkage cyclically absorbs and gives up energy. --

-- Claim 35. The device of claim 30, wherein a cross-section of part of said mechanical linkage resembles the cross-section of a bellows. --

-- Claim 36. The device of claim 36, wherein said shaft has at least one internal volume for the passage of working fluid. --